

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 11343210
PUBLICATION DATE : 14-12-99

APPLICATION DATE : 29-01-99
APPLICATION NUMBER : 11021593

APPLICANT : SHINSHU CERAMICS:KK;

INVENTOR : SAKURADA TSUKASA;

INT.CL. : A01N 59/16 A61L 2/02 A61L 2/16 // B01J 20/06

TITLE : ADHERENT TREATING AGENT

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a printing ink capable of imparting excellent germicidal effects to paper products, cloth products, plastic products, etc., according to a simple method.

SOLUTION: This printing ink or coating material is obtained by mixing and kneading a colorant and a vehicle or a coating film-forming substance with a photocatalyst comprising a photoconductor powder and a metal powder and an adsorbent material such as apatite. The printing ink or coating material is used to form a desired pattern or a desired image on paper products, cloth products, plastic products, etc., to thereby adsorb and retain bacteria by the adsorbent material in the printing ink or coating material. Sterilization is carried out by photocatalytic actions with the semiconductor powder and metal powder. The paper products, etc., are suitable as, e.g. food packaging materials or medical materials.

COPYRIGHT: (C)1999,JPO